

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)	Attorney Docket No.: 01207P008C5	Application Number: Not yet assigned
	First Named Inventor: Peter M. Pani	10/811, 422
	Filing Date: Herewith	

U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
<i>11/8</i>		4,020,469		Manning	4/26/77	
		4,661,901		Veneski	4/28/87	
		4,684,830		Tsui et al.	8/87	
		4,700,187		Furtek	10/13/87	
		4,720,780		Dolecek	1/19/88	
		4,736,333		Mead et al.	4/5/88	
		4,847,612		Kaplinsky	7/11/89	
		4,870,302		Freeman	9/26/89	
		4,918,440		Furtek	4/17/90	
<i>11/8</i>		4,935,734		Austin	6/19/01	

FOREIGN PATENT DOCUMENTS

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<i>PM</i>		4,992,680		Benedetti et al.	2/12/91	
		5,144,166		Camarota et al.	9/1/92	
		5,204,556		Shankar	4/20/93	
		5,208,491		Ebeling et al.	5/4/93	
		5,221,865		Phillips et al.	6/22/93	
		5,243,238		Kean	9/7/93	
		5,256,918		Suzuki	10/93	
		5,260,610		Pedersen et al.	11/9/93	
		5,260,611		Cliff et al.	9/93	
<i>PM</i>		5,296,759		Sutherland et al.	3/22/94	

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<i>[Handwritten mark]</i>		5,298,805		Garverick et al.	3/29/94	
		5,329,470		Sample et al.	7/12/94	
		5,349,691		Harrison et al.	9/20/94	
		5,369,314		Patel et al.	11/29/94	
		5,376,844		Pedersen et al.	12/94	
		5,396,126		Britton et al.	3/7/95	
		5,406,525		Nicholes	4/11/95	
		5,444,394		Watson et al.	8/22/95	
		5,455,525		Ho et al.	10/3/95	
<i>[Handwritten mark]</i>		5,457,410		Ting	10/10/95	

FOREIGN PATENT DOCUMENTS

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		5,469,003		Kean	11/21/95	
		5,477,067		Isomura et al.	12/19/95	
		5,506,517		Tsui et al.	4/9/96	
		5,519,629		Snider	5/21/96	
		5,550,782		Cliff et al.	8/27/96	
		5,552,722		Kean	9/3/96	
		5,572,148		Lytle et al.	11/5/96	
		5,581,199		Pierce et al.	12/3/96	
		5,581,767		Katsuki et al.	12/3/96	
		5,815,004		Trimberger et al.	9/29/98	

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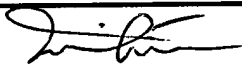
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		5,825,202		Tavana et al.	10/20/98	
		5,835,405		Tsui et al.	11/10/98	
		5,894,228		Reddy et al.	4/13/99	
		5,894,565		Furtek et al.	4/13/99	
		5,903,165		Jones et al.	5/11/99	
		5,905,655		Deeley	5/18/99	
		5,969,543		Erickson et al.	10/19/99	
		6,034,547		Pani et al.	3/7/00	
		6,167,559		Furtek et al.	12/26/00	
		6,496,887		Plants	12/17/02	

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		EP	0415542A1		Advanced Micro Devices, Inc.	3/6/91		
		EP	0630115A2		Pilkington Micro-Electronics Limited	12/21/94		
		GB	2180382A		Pilkington Micro-Electronics Limited	3/25/87		
		GB	2295738A		Altera Corporation	6/5/96		
		PCT	WO92/08286		Concurrent Logic, Inc.	5/14/92		
		PCT	WO94/28475		Regents of the University of California	12/8/94		
		PCT	WO96/05964		Minnesota Mining and Manufacturing Co.	2/29/96		
		PCT	WO96/35261		BTR, Inc.	11/7/96		
		PCT	WO94/10754		Xilinx, Inc.	5/11/94		
		PCT	WO95/04404		Advantage Logic, Inc.	2/9/95		

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OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
UTA		Richard Cliff et al., "A Dual Granularity and Globally Interconnected Architecture for a Programmable Logic Device", Proceedings of the IEEE 1993 Custom Integrated Circuits Conference, May 1993, pp. 7.3.1-7.3.5.	
UTA		Altera Corporation, Data Sheet, "Flex EPF81188 12,000-Gate Programmable Logic Device", September 1992, Version 1.	
UTA		Minnick, R.C., "A Survey of Microcellular Research", Journal of the Association for Computing Machinery, Vol. 14, No. 2, April 1967, pp. 203-241.	
UTA		Shoup, R.G., "Programmable Cellular Logic Arrays", Ph.D dissertation, Carnegie-Mellon University, Pittsburgh, PA, March 1970 - Partial.	
UTA		Spandorfer, L.M., "Synthesis of Logic Functions on an Array of Integrated Circuits", UNIVAC, Division of Sperry Rand Corporation, Blue Bell, PA, Contract AF 19 (628)2907, AFCRL 66-298, Project No. 464504, November 30, 1965.	
UTA		Ping-Tsung Wang et al., "A High Performance FPGA with Hierarchical Interconnection Structure", Institute of Electrical and Electronic Engineers, pp. 239-242, May 30, 1994.	
UTA		Motorola Product Brief, "MPA10XX Field Programmable Gate Arrays", 4 pages total, September 27, 1993.	
UTA		Krambeck, R.H. "ORCA: A High Performance, Easy to Use SRAM Based Architecture", Wescon '93 record, pp. 310-320, September 20-30, 1993.	
UTA		Buffoli et al., "Dynamically Reconfigurable Devices used to Implement a Self-Tuning, High Performance PID Controller", IEEE 1989, pp. 107-112.	
UTA		Devadas, S., "Boolean Decomposition of Programmable Logic Arrays", IEEE 1988, pp. 2.5.1-2.5.5.	

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VT		Vidal, J., "Implementing Neural Nets with Programmable Logic", IEEE 1988, pp. 50-53.	
VT		Yachyang Sun et al., "An Area Minimizer for Floorplans with L-Shaped Regions", 1992, Int'l. Conference on Computer Design, pp. 383-386.	
VT		Atmel Corporation, "Field Programmable Gate Arrays - AT6000 Series", 1993.	
VT		Sinan Kaptanoglu et al., "A New High Density and Very Low Cost Reprogrammable FPGA Architecture", 10 pages. No date	
VT		Dave Bursky, "Fine-Grain FPGA Architecture Uses Four Levels of Configuration Hierarchy", Electronic Design, pp. 33-34, October 1, 1993.	
VT		Dick L. Liu et al., "Design of Large Embedded CMOS PLA's for Built-In Self-Test", IEEE 1988, pp. 50-53.	
VT		Xilinx, "The Programmable Gate Array Data Book", 1992.	
VT		F. Zlotnick et al., "A High Performance Fine-Grained Approach to SRAM based FPGAs, Wescon '93 Record, pp. 321-326, September 28-30, 1993.	
VT		Barry K. Britton et al., "Optimized Reconfigurable Cell Array Architecture for High Performance Field Programmable Gate Arrays", Proceedings of the IEEE 1993 Custom Integrated Circuits Conference, May 1993, pp. 7.2.1-7.2.5.	

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